

EMPLOYMENT and PAY ROLLS

**DETAILED REPORT
JULY 1948**

**United States Department of Labor
Bureau of Labor Statistics**

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ESTIMATES OF MANUFACTURING PRODUCTION WORKERS - NEW SERIES

Industries in Selected Major Industry Groups

In this detailed report the Bureau presents a new series of production-worker estimates for the individual industries comprising the major industry groups listed below. The new estimates have been adjusted to Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Only the industries indicated below were affected; comparison of the remaining industries, in the groups specified, with 1946 bench-mark levels indicated that no adjustment was necessary.

Lumber and timber basic products:

Sawmills and logging camps
Planing and plywood mills

Leather and leather products:

Leather
Boots and shoes

Paper and allied products:

Paper and pulp
Paper goods, other

Printing, publishing, and allied industries:

Printing; book and job

Products of petroleum and coal:

Petroleum refining

Rubber products:

Rubber tires and inner tubes

This report shows the new production-worker employment estimates and indexes of employment and weekly pay rolls for the months currently presented. A set of summary sheets presenting comparable data from January 1939, to date, for the industries in these groups will be provided upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

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Explanatory notes outlining briefly the concepts, methodology, and sources used in preparing data for this report appear in the appendix. See pages i - ix.

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Data for the 2 most recent months shown are subject to revision

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TABLE 1: Estimated Number of Wage and Salary Workers in Nonagricultural Establishments, by Industry Division

(In thousands)

Industry division	1948			1947	
	July	June	May	July	June
TOTAL	45,074	45,008	44,616	43,686	43,816
Manufacturing	16,155	16,113	15,892	15,580	15,672
Mining	922	950	935	890	919
Contract construction	2,217	2,173	2,052	2,043	1,957
Transportation and public utilities	4,135	4,105	4,042	4,155	4,129
Trade	9,647	9,671	9,617	9,316	9,324
Finance	1,754	1,726	1,716	1,675	1,650
Service	4,645	4,663	4,738	4,686	4,711
Government	5,599	5,607	5,624	5,341	5,454

See explanatory notes, sections A - H, and the glossary for definitions.

TABLE 2: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by Major Industry Group

(In thousands)

Major industry group	1948			1947	
	July	June	May	July	June
ALL MANUFACTURING	16,155	16,113	15,892	15,580	15,672
DURABLE GOODS	8,145	8,121	8,114	7,874	8,050
Iron and steel and their products	1,895	1,904	1,894	1,854	1,871
Electrical machinery	713	724	727	742	759
Machinery, except electrical	1,561	1,579	1,568	1,519	1,558
Transportation equipment, except automobiles	556	562	565	527	594
Automobiles	984	918	964	941	939
Nonferrous metals and their products	456	468	467	462	475
Lumber and timber basic products	912	881	851	793	798
Furniture and finished lumber products	542	550	548	534	541
Stone, clay, and glass products	526	535	530	502	515
NONDURABLE GOODS	8,010	7,992	7,778	7,706	7,622
Textile-mill products and other fiber manufactures	1,366	1,418	1,416	1,305	1,325
Apparel and other finished textile products	1,235	1,263	1,247	1,141	1,141
Leather and leather products	422	419	404	417	414
Food	1,912	1,789	1,610	1,785	1,666
Tobacco manufactures	96	98	97	97	97
Paper and allied products	475	477	476	462	470
Printing, publishing, and allied industries	716	719	718	706	705
Chemicals and allied products	748	759	759	752	748
Products of petroleum and coal	245	245	242	237	235
Rubber products	238	243	243	250	257
Miscellaneous industries	557	562	566	554	564

See explanatory notes, sections, A-H, and the glossary for definitions.

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TABLE 3: Estimated Number of Wage and Salary Workers in Selected Nonmanufacturing Industries, by Major Industry Group

(In thousands)

Major industry group	1948			1947	
	July	June	May	July	June
MINING	922	950	935	890	919
Anthracite	81	82	81	79	80
Bituminous coal	395	426	423	379	409
Metal	103	104	102	101	103
Quarrying and nonmetallic	97	97	95	98	98
Crude petroleum and natural gas production <u>1/</u>	246	241	234	233	229
TRANSPORTATION AND PUBLIC UTILITIES	4,135	4,105	4,042	4,155	4,129
Transportation	2,872	2,860	2,809	2,943	2,934
Communication	745	734	731	721	712
Other public utilities	518	511	502	491	483
GOVERNMENT	5,599	5,607	5,624	5,341	5,454
Federal	1,833	1,804	1,788	1,828	1,886
State and local	3,766	3,803	3,836	3,513	3,568

See explanatory notes, sections, A-II, and the glossary for definitions.

1/ Includes well drilling and rig building.

TABLE 4: Federal Civilian Employment and Pay Rolls in All Areas and in Continental United States, and Total Civilian Government Employment and Pay Rolls in Washington, D. C. ^{1/}

(In thousands)

Area and branch	Employment (as of first of month)				Pay rolls (total for month)			
	1948			1947	1948			1947
	July	June	May	July	July	June	May	July
<u>Total (including areas outside United States)</u>								
TOTAL FEDERAL	2,084.3	2,053.9	2,038.9	2,103.2	\$520,818	\$502,235	\$474,725	\$494,351
Executive	2,044.7	2,014.5	1,999.2	2,062.2	511,142	492,681	465,356	484,811
Defense agencies	919.8	916.9	909.9	936.5	224,853	222,329	205,912	213,772
Post Office Dept.	471.2	458.2	455.7	439.6	118,605	102,653	100,925	96,591
Other agencies	653.7	639.4	633.6	686.1	167,684	167,699	158,519	174,448
Legislative	7.3	7.3	7.3	7.3	2,600	2,536	2,469	2,483
Judicial	3.5	3.5	3.5	3.1	1,301	1,279	1,207	1,329
Government corporations	28.8	28.6	28.9	30.6	5,775	5,739	5,693	5,728
<u>Continental United States</u>								
TOTAL FEDERAL	1,858.2	1,823.9	1,808.7	1,848.5	479,953	461,406	434,657	453,649
Executive	1,825.6	1,791.5	1,776.1	1,815.2	470,914	452,529	426,011	444,743
Defense agencies	732.2	724.7	717.1	718.5	192,514	189,974	174,209	180,976
Post Office Dept.	469.7	456.6	454.1	438.1	118,251	102,306	100,570	96,260
Other agencies	623.7	630.2	604.9	658.6	160,149	160,249	151,232	167,507
Legislative	7.3	7.3	7.3	7.3	2,600	2,536	2,469	2,483
Judicial	3.4	3.4	3.4	3.0	1,263	1,242	1,174	1,293
Government corporations	21.9	21.7	21.9	23.0	5,176	5,099	5,003	5,130
<u>Washington, D. C.</u>								
TOTAL GOVERNMENT	233.1	229.3	228.9	231.1	65,748	66,658	63,492	64,577
District of Columbia government	19.1	18.6	18.7	18.4	3,477	4,561	4,422	3,381
Federal	214.0	210.7	210.2	212.7	62,271	62,097	59,070	61,196
Executive	206.1	202.8	202.3	204.8	59,455	59,350	56,400	58,503
Defense agencies	69.0	67.6	67.2	67.9	19,548	19,250	18,045	18,536
Post Office Dept.	7.5	7.4	7.4	7.1	2,298	2,300	2,234	2,297
Other agencies	129.6	127.8	127.7	129.8	37,609	37,800	36,121	37,670
Legislative	7.3	7.3	7.3	7.3	2,600	2,536	2,469	2,483
Judicial	.6	.6	.6	.6	216	211	201	210

See the glossary for definitions.

^{1/} Data for Central Intelligence Agency are excluded starting August 1947 for employment and July 1947 for pay rolls.

TABLE 5: Personnel and Pay of the Military Branch of the Federal Government 1/

(In thousands)

Personnel and pay	1948			1947	
	July	June	May	July	June
PERSONNEL, TOTAL.....	1,463	1,439	1,419	1,592	1,632
Army and Air Force.....	<u>2/</u> 940	<u>2/</u> 930	<u>2/</u> 916	990	1,021
Navy.....	420	407	403	490	496
Marine Corps.....	84	82	80	93	94
Coast Guard.....	20	20	20	19	21
Men.....	1,449	1,423	1,403	1,572	1,609
Women.....	14	16	16	20	23
PAY, TOTAL.....	\$227,084	\$277,368	\$278,967	\$339,128	\$335,391
<u>By branch:</u>					
Army and Air Force.....	168,070	173,955	176,651	200,676	203,764
Navy.....	90,431	85,522	84,136	115,734	109,047
Marine Corps.....	13,884	13,551	13,974	16,212	17,272
Coast Guard.....	4,699	4,339	4,207	6,506	5,308
<u>By type of pay:</u>					
Pay rolls.....	246,422	243,239	242,292	259,172	262,505
Mustering-out pay.....	2,581	5,756	9,057	12,670	12,465
Family allowances.....	26,343	26,475	25,736	25,036	24,459
Leave payments.....	1,738	1,898	1,882	42,250	35,962
Cash.....	351	495	486	3,718	3,697
Bonds.....	1,387	1,403	1,396	38,532	32,265

See the glossary for definitions.

1/ Because of rounding, the individual figures do not necessarily add to group totals.2/ Air Force personnel, 375,000 in May, 384,000 in June, and 388,000 in July, 1948.

TABLE 6: Estimated Number of Wage and Salary Workers in Nonagricultural Establishments for Selected States

(In thousands)

State	1948			1947	
	June	May	April	June	May
Connecticut	765	767	772	769	770
Illinois	3,174	3,126	3,110	3,122	3,104
Indiana	1,209	1,197	1,179	1,193	1,184
Maine	270	259	253	257	252
Maryland	707	698	686	665	671
Massachusetts	1,730	1,720	1,701	1,696	1,691
Minnesota	803	782	767	770	760
Montana	138	136	135	135	133
Nevada <u>1/</u>	49	48	48	49	* 48
New Jersey	1,593	1,576	1,568	1,567	1,532
New York	5,416	5,385	5,380	5,381	5,387
Pennsylvania	3,606	3,577	3,520	3,530	3,520
Rhode Island	288	287	288	285	284
Texas	1,720	1,693	1,685	1,643	*1,613
Utah	172	174	166	169	171
Vermont <u>1/</u>	96	94	94	95	94
Washington	655	641	659	664	657
Wisconsin	993	977	973	966	953

See explanatory notes, sections H and I.

1/ Does not include contract construction.

* Revised.

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TABLE 7: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State

(In thousands)

Region and State	1948			1947	
	June	May	April	June	May
NEW ENGLAND:					
Maine 1/	115.2	108.2	106.7	108.2	106.8
New Hampshire	82.7	81.6	82.6	79.3	78.7
Vermont 1/	37.8	37.8	38.1	38.4	38.7
Massachusetts	725.5	723.4	729.7	724.7	734.3
Rhode Island	146.5	147.0	149.9	147.0	147.7
Connecticut 1/	396.5	401.1	406.4	410.4	415.0
MIDDLE ATLANTIC:					
New York	1,831.7	1,829.0	1,850.4	1,841.6	1,858.0
New Jersey	742.3	740.7	746.0	745.2	727.0
Pennsylvania	1,492.0	1,487.1	1,495.3	1,487.2	*1,494.8
EAST NORTH CENTRAL:					
Ohio	1,228.1	1,221.3	1,230.7	1,244.5	1,238.7
Indiana	546.4	541.9	540.0	* 553.6	550.1
Illinois	1,228.7	1,203.5	1,198.0	1,238.3	1,232.0
Michigan	962.7	998.5	1,002.7	1,013.1	980.3
Wisconsin 1/	429.7	420.0	426.3	427.9	423.5
WEST NORTH CENTRAL:					
Minnesota 1/	203.3	190.9	188.7	194.5	193.5
Iowa 1/	149.8	135.1	133.8	148.6	146.7
Missouri 1/	343.9	339.3	339.9	345.4	347.1
North Dakota	7.1	6.7	6.4	* 6.8	6.7
South Dakota	11.9	11.3	11.3	11.5	11.3
Nebraska	43.0	36.1	34.9	43.1	42.5
Kansas	84.5	77.0	73.3	81.0	79.5
SOUTH ATLANTIC:					
Delaware	46.5	45.7	46.5	45.4	* 45.7
Maryland	229.4	228.5	228.2	224.3	228.9
District of Columbia	17.1	17.2	17.4	17.2	17.1
Virginia	211.9	210.8	212.8	207.9	209.4
West Virginia	133.9	132.4	131.9	132.6	131.5
North Carolina	381.7	381.4	382.6	366.0	366.4
South Carolina	200.5	199.3	199.3	188.9	188.7
Georgia	252.7	252.0	252.4	246.2	249.7
Florida 1/	90.0	93.2	96.5	88.2	88.9

TABLE 7: Estimated Number of Wage and Salary Workers in Manufacturing Industries, by State - Continued

(In thousands)

Region and State	1948			1947	
	June	May	April	June	May
EAST SOUTH CENTRAL:					
Kentucky	127.0	125.9	128.2	123.6	123.9
Tennessee	250.7	250.8	251.5	245.2	245.7
Alabama <u>1/</u>	228.3	228.0	227.3	221.1	222.8
Mississippi	89.5	88.1	88.6	90.9	88.5
WEST SOUTH CENTRAL:					
Arkansas <u>1/</u>	76.6	75.1	74.8	74.2	74.7
Louisiana	139.6	137.8	138.3	138.6	136.6
Oklahoma <u>1/</u>	68.9	65.2	65.5	62.6	61.4
Texas	354.8	341.7	338.7	339.3	324.8
MOUNTAIN:					
Montana	17.7	17.1	17.1	17.8	17.1
Idaho	19.8	18.7	17.9	20.1	19.2
Wyoming	6.8	6.5	6.3	6.3	6.1
Colorado	56.3	53.3	54.0	54.6	53.8
New Mexico <u>1/</u>	10.0	9.3	8.8	9.1	9.1
Arizona <u>1/</u>	16.0	15.7	15.3	14.8	14.6
Utah	25.8	24.2	22.6	24.9	24.1
Nevada <u>1/</u>	3.4	3.3	3.3	3.3	3.3
PACIFIC:					
Washington	163.4	152.4	175.3	179.3	174.9
Oregon	112.8	110.7	110.2	119.1	117.1
California	712.9	696.3	695.8	689.3	693.0

See explanatory notes, sections H and I.

1/ Series based on Standard Industrial Classification. Data for Iowa, Minnesota, Missouri, and Oklahoma may not be strictly comparable with those published prior to the current report.

* Revised. .

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries

(In thousands)

Industry group and industry	1948			1947	
	July	June	May	July	June
ALL MANUFACTURING	12,973	12,954	12,738	12,562	12,672
DURABLE GOODS	6,667	6,658	6,642	6,452	6,639
NONDURABLE GOODS	6,306	6,296	6,096	6,110	6,033
<u>Durable goods</u>					
IRON AND STEEL AND THEIR PRODUCTS	1,601	1,610	1,600	1,569	1,588
Blast furnaces, steel works, and rolling mills	526.5	523.0	517.7	503.0	501.2
Gray-iron and semisteel castings	104.7	108.8	107.1	113.0	115.0
Malleable-iron castings	36.1	37.9	37.3	33.7	35.6
Steel castings	68.2	69.6	68.4	64.0	65.4
Cast-iron pipe and fittings	28.6	28.9	28.4	27.1	27.4
Tin cans and other tinware	47.4	44.7	42.8	44.3	42.7
Wire drawn from purchased rods	28.0	28.7	29.4	30.6	31.0
Wirework	41.8	40.2	41.1	39.0	39.9
Cutlery and edge tools	21.8	22.1	23.1	21.5	23.5
Tools (except edge tools, machine tools, files, and saws)	24.6	25.1	25.2	23.9	25.4
Hardware	49.3	49.8	51.9	49.1	49.9
Plumbers' supplies	38.8	40.3	39.3	38.3	39.0
Stoves, oil burners, and heating equipment, not elsewhere classified	78.7	78.7	79.5	82.7	84.3
Steam and hot-water heating apparatus and steam fittings	57.0	60.5	60.8	60.3	64.0
Stamped and enameled ware and galvanizing	110.1	111.0	110.9	109.2	110.9
Fabricated structural and ornamental metalwork	59.3	59.6	60.0	59.1	59.2
Metal doors, sash, frames, molding, and trim	10.4	10.4	10.2	9.6	9.4
Bolts, nuts, washers, and rivets	28.1	28.5	28.6	27.7	28.5
Forgings, iron and steel	35.1	34.9	35.1	35.9	36.5
Wrought pipe, welded and heavy-riveted	19.8	20.1	18.8	17.3	17.1
Screw-machine products and wood screws	35.2	35.9	36.4	36.0	37.3
Steel barrels, kegs, and drums	7.9	7.9	7.6	8.4	8.2
Firearms	21.5	21.4	21.2	19.3	19.0
ELECTRICAL MACHINERY	535	546	548	567	584
Electrical equipment	351.4	356.7	357.4	368.8	378.3
Radios and phonographs	85.8	88.9	90.0	93.3	98.3
Communication equipment	86.9	90.2	90.0	94.0	97.3

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1948			1947	
	July	June	May	July	June
MACHINERY, EXCEPT ELECTRICAL	1,199	1,217	1,207	1,171	1,208
Machinery and machine-shop products	487.5	493.2	489.6	490.8	501.3
Engines and turbines	52.3	52.1	53.5	53.1	53.1
Tractors	60.0	60.4	56.3	56.8	57.0
Agricultural machinery, excluding tractors	74.8	76.3	75.2	64.4	67.5
Machine tools	46.8	47.0	47.5	50.6	53.9
Machine-tool accessories	51.8	55.4	55.4	55.4	59.1
Textile machinery	41.3	42.0	41.6	36.4	39.0
Pumps and pumping equipment	66.3	67.7	69.3	74.1	77.0
Typewriters	22.8	23.7	23.8	14.5	18.3
Cash registers; adding, and calculating machines	45.2	45.8	45.6	37.9	38.1
Washing machines, wringers, and driers, domestic	15.6	16.4	16.0	14.6	15.0
Sewing machines, domestic and industrial	14.1	14.0	13.9	12.0	10.8
Refrigerators and refrigeration equipment	84.2	84.8	82.5	77.2	78.9
TRANSPORTATION EQUIPMENT, EXCEPT AUTOMOBILES	430	434	438	403	472
Locomotives	26.4	26.3	26.4	23.8	24.3
Cars, electric- and steam-railroad	54.5	55.0	53.9	55.1	54.9
Aircraft and parts, excluding aircraft engines	130.3	127.6	125.1	129.3	133.9
Aircraft engines	25.6	25.9	25.1	26.8	26.9
Shipbuilding and boatbuilding	103.7	108.9	116.1	87.7	140.4
Motorcycles, bicycles, and parts	10.8	12.4	12.9	13.0	13.3
AUTOMOBILES	784	737	767	753	758
NONFERROUS METALS AND THEIR PRODUCTS	388	398	398	393	408
Smelting and refining, primary, of nonferrous metals	41.9	41.9	41.4	40.8	40.4
Alloying; and rolling and drawing of nonferrous metals, except aluminum	51.8	52.5	52.6	54.3	57.6
Clocks and watches	25.9	28.3	28.3	24.8	27.5
Jewelry (precious metals) and jewelers' findings	25.7	26.3	26.4	24.7	25.3
Silverware and plated ware	26.4	27.3	27.2	23.7	24.3
Lighting equipment	30.2	30.8	30.4	36.4	37.0
Aluminum manufactures	39.0	42.2	42.7	40.0	43.6
Sheet-metal work, not elsewhere classified	35.5	34.9	35.2	37.6	38.6

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1948			1947	
	July	June	May	July	June
LUMBER AND TIMBER BASIC PRODUCTS 1/	828	799	772	721	727
Sawmills and logging camps	680.0	653.1	627.7	589.9	593.3
Planing and plywood mills	147.7	145.8	144.0	130.9	133.5
FURNITURE AND FINISHED LUMBER PRODUCTS	452	459	458	445	452
Mattresses and bedsprings	31.0	31.2	31.2	28.5	29.9
Furniture	228.1	231.7	233.3	223.9	227.0
Wooden boxes, other than cigar	33.2	33.2	32.5	35.2	36.2
Caskets and other morticians' goods	17.6	18.1	18.6	19.1	19.2
Wood preserving	16.1	15.7	15.4	18.8	18.6
Wood, turned and shaped	31.6	33.1	32.1	30.2	30.2
STONE, CLAY, AND GLASS PRODUCTS	450	458	454	430	442
Glass and glassware	111.0	116.5	117.5	113.1	120.3
Glass products made from purchased glass	12.4	12.3	12.2	12.4	12.6
Cement	38.1	37.6	37.1	35.7	35.3
Brick, tile, and terra cotta	79.8	80.1	77.7	73.3	73.0
Pottery and related products	55.6	57.6	57.1	54.3	55.5
Gypsum	6.7	6.6	6.5	6.1	6.0
Wallboard, plaster (except gypsum), and mineral wool	12.7	12.6	12.6	11.5	11.2
Lime	9.4	9.3	9.5	9.3	9.3
Marble, granite, slate, and other products	18.6	18.4	18.1	16.8	16.5
Abrasives	18.3	17.8	17.5	17.0	18.7
Asbestos products	20.8	21.6	21.8	19.5	20.7
<u>Nondurable goods</u>					
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	1,243	1,295	1,293	1,187	1,208
Cotton manufactures, except smallwares	508.9	527.7	524.7	492.6	501.7
Cotton smallwares	13.4	14.0	14.4	13.1	13.7
Silk and rayon goods	108.2	112.6	111.8	99.9	101.7
Woolen and worsted manufactures, except dyeing and finishing	167.2	173.8	173.2	158.1	162.9
Hosiery	125.6	135.3	136.6	125.9	124.4
Knitted cloth	11.1	11.2	11.5	10.3	10.5
Knitted outerwear and knitted gloves	28.1	30.8	31.4	27.0	28.0
Knitted underwear	46.6	48.1	48.6	43.6	43.8
Dyeing and finishing textiles, including woolen and worsted	84.5	86.5	87.5	80.2	83.4
Carpets and rugs, wool	37.1	37.2	36.9	31.9	31.9
Hats, fur-felt	12.3	13.4	12.9	12.8	13.1
Jute goods, except felts	4.3	4.3	4.2	4.1	4.2
Cordage and twine	15.8	16.2	16.4	14.8	15.5

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1948			1947	
	July	June	May	July	June
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	1,070	1,095	1,082	992	993
Men's clothing, not elsewhere classified	296.5	314.4	309.8	278.2	284.5
Shirts, collars, and nightwear	75.8	80.0	80.9	71.7	74.3
Underwear and neckwear, men's	16.7	18.2	18.4	15.4	16.7
Work shirts	18.5	18.6	18.2	14.0	14.4
Women's clothing, not elsewhere classified	437.0	435.4	427.6	400.2	389.1
Corsets and allied garments	17.0	18.1	18.5	16.9	17.7
Millinery	22.4	20.3	20.5	20.5	20.2
Handkerchiefs	3.9	4.9	5.0	4.2	4.6
Curtains, draperies, and bedspreads	25.1	26.4	26.4	23.2	22.5
Housefurnishings, other than curtains, etc.	28.2	27.9	27.7	26.6	28.6
Textile bags	28.2	27.3	26.8	26.9	27.1
LEATHER AND LEATHER PRODUCTS <u>1/</u>	376	373	359	373	370
Leather	47.2	47.9	47.5	48.4	48.5
Boot and shoe cut stock and findings	17.7	17.8	17.3	18.8	18.0
Boots and shoes	240.2	236.6	225.5	237.8	235.1
Leather gloves and mittens	12.8	12.9	12.4	11.9	12.1
Trunks and suitcases	13.3	13.3	13.2	11.7	12.2
FOOD	1,367	1,259	1,091	1,311	1,192
Slaughtering and meat packing	190.3	188.9	116.2	182.3	176.4
Butter	39.3	40.5	39.2	38.8	38.4
Condensed and evaporated milk	22.4	23.0	21.6	23.5	23.5
Ice cream	32.6	31.6	29.2	33.4	33.1
Flour	39.8	38.6	37.3	39.4	37.9
Feeds, prepared	29.1	28.7	27.9	29.6	29.0
Cereal preparations	13.8	13.0	12.8	13.1	12.2
Baking	226.3	224.6	219.7	216.6	213.2
Sugar refining, cane	21.3	18.3	17.7	20.8	20.4
Sugar, beet	7.2	7.0	6.3	8.1	7.1
Confectionery	56.4	57.3	56.0	57.9	60.2
Beverages, nonalcoholic	44.6	41.0	38.5	35.5	32.2
Malt liquors	79.3	74.8	66.3	74.0	70.6
Canning and preserving	246.2	167.9	137.8	246.2	155.3
TOBACCO MANUFACTURES <u>1/</u>	83	85	84	84	84
Cigarettes	33.6	33.3	33.1	32.9	33.3
Cigars	41.7	43.6	43.7	43.0	43.1
Tobacco (chewing and smoking) and snuff	7.6	7.7	7.6	7.8	7.7

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1948			1947	
	July	June	May	July	June
PAPER AND ALLIED PRODUCTS <u>1/</u>	388	390	389	380	388
Paper and pulp	206.0	204.2	204.7	197.3	197.9
Paper goods, other	60.5	61.7	61.5	60.2	61.7
Envelopes	12.3	12.5	12.7	11.6	11.9
Paper bags	17.4	17.5	17.6	17.8	18.2
Paper boxes	90.9	92.8	91.4	92.6	97.0
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	430	433	432	430	431
Newspapers and periodicals	146.8	146.9	146.4	142.2	142.0
Printing; book and job	183.0	184.4	184.2	184.3	183.7
Lithographing	31.2	31.1	30.9	31.5	32.4
Bookbinding	33.4	35.1	35.1	37.0	37.5
CHEMICALS AND ALLIED PRODUCTS	564	572	572	562	561
Paints, varnishes, and colors	51.1	51.2	50.7	48.6	50.0
Drugs, medicines, and insecticides	62.9	63.5	63.6	66.7	67.8
Perfumes and cosmetics	10.9	10.9	11.0	11.7	12.0
Soap	22.3	22.0	21.7	24.0	24.3
Rayon and allied products	64.2	64.2	63.4	61.0	52.5
Chemicals, not elsewhere classified	192.8	198.2	195.6	197.7	198.8
Explosives and safety fuses	23.7	23.1	22.2	19.6	21.2
Compressed and liquefied gases	10.0	10.1	10.0	9.8	9.9
Ammunition, small-arms	7.7	7.8	7.8	6.9	7.1
Fireworks	2.2	2.5	2.6	2.4	2.9
Cottonseed oil	12.5	12.6	13.6	11.6	11.9
Fertilizers	23.2	24.3	29.4	23.8	25.0
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	170	170	167	165	163
Petroleum refining	117.0	116.6	114.7	114.3	112.4
Coke and byproducts	31.9	31.7	31.1	29.0	28.8
Paving materials	2.7	2.7	2.4	2.8	2.6
Roofing materials	17.4	17.7	17.3	18.2	17.7

See explanatory notes, sections C, D, and G, and the glossary for definitions.

TABLE 8: Estimated Number of Production Workers in Manufacturing Industries - Cont'd

(In thousands)

Industry group and industry	1948			1947	
	July	June	May	July	June
RUBBER PRODUCTS <u>1/</u>	190	195	195	200	207
Rubber tires and inner tubes	90.9	91.9	91.4	102.9	105.8
Rubber boots and shoes	20.7	21.8	21.7	20.1	21.4
Rubber goods, other	78.9	81.7	81.7	76.8	79.5
MISCELLANEOUS INDUSTRIES	425	429	432	426	436
Instruments (professional and scientific), and fire-control equipment	27.8	27.5	27.5	27.5	28.1
Photographic apparatus	38.8	38.1	37.8	38.3	37.4
Optical instruments and ophthalmic goods	23.8	25.5	26.7	27.9	28.9
Pianos, organs, and parts	12.7	13.5	13.7	14.9	15.2
Games, toys, and dolls	41.7	40.9	40.2	36.1	34.8
Buttons	12.5	12.9	12.8	10.7	11.8
Fire extinguishers	2.8	2.7	2.7	2.9	2.9

See explanatory notes, sections C, D, and G, and the glossary for definitions.

1/ Estimates for the individual industries comprising the major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

Data for the individual industries comprising the major industry groups listed below supersede data shown in publications dated prior to:

Major industry group	: Mimeographed release	: Monthly Labor Review
Tobacco manufactures	July 1948	August 1948
Lumber and timber basic products	September 1948	October 1948
Leather and leather products	September 1948	October 1948
Paper and allied products	September 1948	October 1948
Printing, publishing, and allied industries	September 1948	October 1948
Products of petroleum and coal	September 1948	October 1948
Rubber products	September 1948	October 1948

TABLE 9: Estimated Number of Employees in Selected Nonmanufacturing Industries 1/

(In thousands)

Industry group and industry	1948			1947	
	July	June	May	July	June
MINING: <u>2/</u>					
Coal:					
Anthracite	76.1	77.4	76.4	74.2	75.7
Bituminous coal	378	407	405	363	392
Metal	91.7	92.8	91.4	90.6	91.9
Iron	33.7	33.7	32.7	32.6	32.4
Copper	26.6	26.7	26.5	25.7	25.7
Lead and zinc	15.1	16.3	16.4	16.3	17.8
Gold and silver	8.3	8.3	8.1	8.1	8.0
Miscellaneous	8.0	7.9	7.7	7.9	7.9
Quarrying and nonmetallic	86.8	86.8	85.1	88.6	88.3
Crude petroleum and natural gas production <u>3/</u>	136.9	133.5	128.7	130.8	128.5
TRANSPORTATION AND PUBLIC UTILITIES:					
Class I steam railroads <u>4/</u>	1,362	1,352	1,321	1,383	1,375
Street railways and busses <u>5/</u>	246	249	249	254	253
Telephone	643	633	630	614	605
Telegraph <u>6/</u>	36.0	36.1	36.3	38.2	38.5
Electric light and power	283	279	274	267	263
SERVICE:					
Hotels (year-round)	374	379	377	382	385
Power laundries <u>2/</u>	239	238	233	250	249
Cleaning and dyeing <u>2/</u>	92.6	94.7	93.4	97.7	100.8

See explanatory notes, sections C, D, and G, and the glossary for definitions.

1/ Unless otherwise noted, includes all nonsupervisory employees and working supervisors.2/ Includes production and related workers only.3/ Does not include well drilling or rig building.4/ Includes all employees at middle of month. Excludes employees of switching and terminal companies. Class I steam railroads include those with over \$1,000,000 annual revenue. Source: Interstate Commerce Commission.5/ Includes private and municipal street-railway companies and affiliated, subsidiary, or successor trolley-bus and motor-bus companies.6/ Includes all land-line employees except those compensated on a commission basis. Excludes general and divisional headquarters personnel, trainees in school, and messengers.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries
(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	July	June	May	July	July	June	May	July
ALL MANUFACTURING	158.4	158.1	155.5	153.3	360.1	359.0	346.7	321.8
DURABLE GOODS	184.6	184.4	183.9	178.7	403.1	401.3	390.8	359.4
NONDURABLE GOODS	137.7	137.4	133.1	133.4	318.1	317.7	303.6	285.1
<u>Durable goods</u>								
IRON AND STEEL AND THEIR PRODUCTS	161.4	162.4	161.4	158.2	336.9	340.5	334.4	307.2
Blast furnaces, steel works, and rolling mills	135.5	134.6	133.3	129.5	269.9	268.4	265.4	237.6
Gray-iron and semisteel castings	168.3	174.8	172.2	181.7	377.8	400.1	374.3	396.3
Malleable-iron castings	188.0	197.0	194.2	175.5	448.8	468.1	460.3	397.2
Steel castings	212.6	217.1	213.6	199.8	440.5	469.5	454.2	398.7
Cast-iron pipe and fittings	162.6	164.5	161.6	154.0	411.6	422.0	401.4	365.6
Tin cans and other tinware	149.2	140.8	134.9	139.4	353.8	310.8	286.1	297.6
Wire drawn from purchased rods	127.5	130.7	134.0	139.1	242.8	243.3	249.8	240.4
Wirework	137.6	132.4	135.2	128.4	315.1	295.7	298.2	264.0
Cutlery and edge tools	141.2	143.6	149.9	139.8	335.7	343.6	357.8	314.2
Tools (except edge tools, machine tools, files, and saws)	160.8	163.9	164.7	156.0	358.7	370.8	366.6	318.1
Hardware	138.3	139.7	145.5	137.6	303.8	318.6	325.8	300.2
Plumbers' supplies	147.8	153.7	149.8	146.0	316.7	329.0	324.0	291.4
Stoves, oil burners, and heating equipment, not elsewhere classified	160.2	160.2	161.7	168.2	359.1	359.9	352.5	346.6
Steam and hot-water heating apparatus and steam fittings	176.4	187.4	188.2	186.8	397.2	409.5	406.0	373.8
Stamped and enameled ware and galvanizing	186.1	187.6	187.4	184.6	428.9	439.3	440.6	402.9
Fabricated structural and ornamental metalwork	167.1	167.9	169.0	166.4	329.0	345.2	345.7	320.1
Metal doors, sash, frames, molding, and trim	134.2	133.7	131.4	123.8	292.9	309.1	288.6	244.5
Bolts, nuts, washers, and rivets	184.5	187.3	187.8	182.1	401.0	412.8	408.2	355.1
Forgings, iron and steel	214.5	213.3	214.2	219.0	449.6	454.1	443.7	427.2
Wrought pipe, welded and heavy-riveted	222.1	225.1	211.0	193.8	473.0	467.3	443.1	387.8
Screw-machine products and wood screws	195.3	199.1	202.1	199.6	426.8	436.9	445.4	414.5
Steel barrels, kegs, and drums	122.4	121.7	117.7	129.1	301.4	313.3	302.6	317.2
Firearms	403.0	402.6	397.9	362.2	952.7	945.9	915.6	776.8
ELECTRICAL MACHINERY	206.4	210.8	211.6	218.9	436.5	439.6	431.6	430.0
Electrical equipment	192.4	195.3	195.7	201.9	405.7	406.7	398.1	396.3
Radios and phonographs	195.0	202.0	204.6	212.1	456.2	458.0	451.4	460.8
Communication equipment	267.7	277.8	277.3	289.5	517.8	534.1	530.0	521.3

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	July	June	May	July	July	June	May	July
MACHINERY, EXCEPT ELECTRICAL	226.9	230.4	228.5	221.7	469.5	486.7	466.4	427.4
Machinery and machine-shop products	234.8	237.5	235.8	236.4	489.3	500.7	491.0	456.2
Engines and turbines	230.6	279.5	286.7	284.6	584.5	601.4	617.6	578.6
Tractors	191.8	193.0	180.1	181.7	366.4	355.5	285.4	314.2
Agricultural machinery, excluding tractors	262.2	267.4	263.7	225.7	573.3	595.4	571.2	462.8
Machine tools	127.7	128.4	129.7	138.2	238.7	242.9	240.7	242.3
Machine-tool accessories	200.4	214.5	214.4	214.4	361.1	383.5	389.9	361.7
Textile machinery	188.6	191.6	189.8	166.3	437.9	459.1	444.8	348.9
Pumps and pumping equipment	266.5	272.3	278.7	298.0	585.2	596.5	610.3	614.1
Typewriters	140.8	145.9	147.0	89.2	318.7	325.2	325.0	186.9
Cash registers; adding, and calculating machines	229.5	232.9	231.8	192.5	506.2	505.9	489.4	378.0
Washing machines, wringers, and driers, domestic	209.5	220.0	214.6	195.5	438.5	480.9	454.2	395.5
Sewing machines, domestic and industrial	179.4	178.6	177.2	152.9	458.5	444.2	428.0	331.1
Refrigerators and refrigeration equipment	239.4	241.3	234.6	219.6	489.3	508.9	472.3	426.3
TRANSPORTATION EQUIPMENT EXCEPT AUTOMOBILES	270.6	273.7	276.0	253.7	552.4	561.2	566.4	492.5
Locomotives	407.4	406.5	407.7	368.0	907.3	913.7	916.4	760.3
Cars, electric- and steam-railroad	222.3	224.4	219.6	224.8	467.9	492.5	478.5	482.1
Aircraft and parts, excluding aircraft engines	328.5	321.5	315.3	326.0	661.1	649.2	634.2	622.4
Aircraft engines	287.4	290.8	282.4	301.1	533.1	517.5	493.5	485.1
Shipbuilding and boatbuilding	149.8	157.2	167.6	126.6	305.3	321.7	345.7	243.1
Motorcycles, bicycles, and parts	154.7	177.5	185.2	186.0	300.2	345.7	370.5	379.4
AUTOMOBILES	195.0	183.2	190.5	187.3	423.3	380.9	362.6	355.3
NONFERROUS METALS AND THEIR PRODUCTS	169.1	173.8	173.7	171.4	361.2	368.1	362.5	332.1
Smelting and refining, primary, of nonferrous metals	151.5	151.6	149.8	147.7	338.1	329.3	321.6	299.4
Alloying; and rolling and drawing of nonferrous metals, except aluminum	133.5	135.3	135.6	140.0	283.9	277.9	268.9	262.7
Clocks and watches	127.6	139.3	139.2	122.4	304.1	331.7	327.4	264.3
Jewelry (precious metals) and jewelers' findings	178.1	181.8	182.6	171.0	345.2	372.0	362.4	297.0
Silverware and plated ware	217.9	225.2	224.2	195.5	481.1	526.7	522.4	431.0
Lighting equipment	147.4	150.6	148.4	177.7	317.8	305.5	293.3	320.4
Aluminum manufactures	165.8	179.3	181.5	170.0	315.1	338.0	347.0	301.6
Sheet-metal work, not elsewhere classified	189.3	186.2	187.8	200.7	420.9	420.7	413.2	417.6

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	July	June	May	July	July	June	May	July
LUMBER AND TIMBER BASIC PRODUCTS 1/	196.9	190.0	183.6	171.5	511.7	497.3	461.1	394.2
Sawmills and logging camps	216.8	208.2	200.1	188.1	575.6	555.6	508.4	441.3
Planing and plywood mills	186.6	184.2	182.0	165.5	456.3	456.1	445.1	357.0
FURNITURE AND FINISHED LUMBER PRODUCTS	137.8	139.8	139.7	135.7	320.4	326.0	325.6	298.6
Mattresses and bedsprings	151.1	152.3	152.0	139.2	330.5	324.9	318.0	287.3
Furniture	128.2	130.3	131.1	125.9	296.5	304.2	307.2	274.4
Wooden boxes, other than cigar	117.2	117.3	114.8	123.8	297.3	304.3	281.4	301.8
Caskets and other morticians' goods	126.5	130.5	133.5	137.4	255.1	264.7	270.3	260.6
Wood preserving	123.5	124.8	122.6	149.4	348.6	334.5	328.6	392.7
Wood, turned and shaped	128.6	134.5	130.5	123.0	297.1	301.5	303.9	268.5
STONE, CLAY, AND GLASS PRODUCTS	153.2	156.0	154.7	146.5	335.5	347.1	343.4	298.8
Glass and glassware	155.6	163.2	164.7	158.5	316.8	348.5	352.5	312.8
Glass products made from purchased glass	124.3	123.2	122.2	123.5	257.0	265.9	264.5	247.2
Cement	156.4	154.5	152.2	146.5	328.7	323.5	314.3	283.5
Brick, tile, and terra cotta	137.5	138.0	133.8	126.3	335.1	329.9	320.8	276.4
Pottery and related products	164.4	170.2	168.9	160.4	336.6	355.2	351.1	308.6
Gypsum	136.4	134.0	132.5	124.2	307.5	306.1	303.7	260.2
Wallboard, plaster (except gypsum), and mineral wool	156.7	154.9	155.4	141.3	426.5	412.9	403.8	333.6
Lime	99.4	98.3	100.8	98.0	268.9	270.7	273.3	237.7
Marble, granite, slate, and other products	100.7	99.2	97.6	90.5	184.1	185.0	183.2	156.7
Abrasives	237.2	230.4	226.0	220.0	488.4	502.4	490.6	386.0
Asbestos products	130.9	136.0	137.1	122.7	327.2	334.3	329.9	293.2
<u>Nondurable goods</u>								
TEXTILE-MILL PRODUCTS AND OTHER FIBER MANUFACTURES	108.7	113.2	113.0	103.8	285.4	304.6	303.8	243.7
Cotton manufactures, except smallwares	121.6	126.1	125.4	117.7	341.3	365.9	369.7	302.6
Cotton smallwares	95.1	99.4	102.3	93.3	226.0	238.0	238.3	200.5
Silk and rayon goods	85.4	89.0	88.3	79.0	257.1	271.5	268.6	203.0
Woolen and worsted manufactures, except dyeing and finishing	106.0	110.3	109.9	100.3	294.9	311.5	307.9	243.0
Hosiery	74.8	80.5	81.3	74.9	171.1	185.6	183.6	148.5
Knitted cloth	96.5	96.8	99.4	89.6	223.9	223.2	223.1	192.8
Knitted outerwear and knitted gloves	94.6	103.6	105.8	90.7	212.0	242.2	247.6	188.4
Knitted underwear	114.4	118.1	119.3	107.0	283.4	301.8	303.4	250.2
Dyeing and finishing textiles, including woolen and worsted	119.6	122.5	123.9	113.5	278.4	297.8	299.0	241.1
Carpets and rugs, wool	137.4	137.6	136.4	119.7	342.1	345.4	332.8	254.6
Hats, fur-felt	80.0	87.0	84.2	83.3	174.3	197.4	184.6	171.8
Jute goods, except felts	112.3	114.2	112.0	107.5	272.4	277.5	272.2	232.2
Cordage and twine	123.7	127.0	128.7	116.0	287.6	306.5	303.4	252.7

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	July	June	May	July	July	June	May	July
APPAREL AND OTHER FINISHED TEXTILE PRODUCTS	135.6	138.6	137.1	125.7	303.6	303.6	297.9	266.2
Men's clothing, not elsewhere classified	129.1	136.9	134.9	121.1	294.1	312.9	311.5	260.0
Shirts, collars, nightwear	102.5	108.2	109.4	96.9	246.6	258.5	266.8	219.3
Underwear and neckwear, men's	98.5	107.4	108.3	91.0	269.6	289.1	296.7	230.8
Work shirts	130.9	131.4	129.2	99.1	323.5	330.9	325.8	247.2
Women's clothing, not elsewhere classified	152.7	152.1	149.4	139.8	326.6	310.7	299.3	283.1
Corsets and allied garments	90.8	96.5	93.8	90.1	197.8	210.8	213.0	187.4
Millinery	87.8	79.4	80.4	80.4	166.2	133.2	127.9	145.5
Handkerchiefs	76.8	96.6	99.2	82.9	180.3	231.0	239.1	196.7
Curtains, draperies, and bedspreads	141.2	148.9	143.8	130.4	316.8	339.2	334.8	283.9
Housefurnishings, other than curtains, etc.	252.6	249.9	248.2	238.2	576.8	587.3	544.2	496.7
Textile bags	223.6	216.4	212.8	213.0	493.2	470.8	464.8	438.2
LEATHER AND LEATHER PRODUCTS <u>1/</u>	108.3	107.4	103.3	107.5	236.9	233.4	215.4	229.0
Leather	94.3	95.7	94.9	96.7	203.6	205.2	201.1	199.6
Boot and shoe cut stock and findings	88.6	88.9	86.9	94.4	178.6	179.9	169.6	182.4
Boots and shoes	104.0	102.5	97.7	103.0	231.1	225.3	202.8	224.6
Leather gloves and mittens	127.8	128.8	123.9	118.9	267.4	273.6	256.9	227.2
Trunks and suitcases	159.6	159.3	158.6	141.0	339.5	339.5	339.8	274.3
FOOD	160.0	147.4	127.7	153.4	353.5	330.1	281.3	317.1
Slaughtering and meat packing	140.9	139.9	86.0	135.0	305.9	315.4	211.3	280.9
Butter	195.4	201.2	194.5	192.7	429.5	429.8	407.2	387.7
Condensed and evaporated milk	205.9	211.2	198.3	216.3	506.3	520.3	477.9	470.6
Ice cream	184.9	179.1	166.0	189.4	363.2	341.5	311.3	343.7
Flour	143.4	139.1	134.2	142.0	343.5	317.3	294.0	326.1
Feeds, prepared	168.6	166.4	161.5	171.4	395.2	389.0	367.4	366.8
Cereal preparations	164.5	155.2	152.6	156.5	374.8	353.7	333.6	329.9
Baking	118.9	118.0	115.4	113.7	247.6	245.4	235.1	218.0
Sugar refining, cane	134.4	115.3	111.7	130.9	312.0	243.4	227.9	275.0
Sugar, beet	62.0	60.2	54.6	69.7	128.0	123.0	111.8	131.3
Confectionery	101.2	102.9	100.5	103.9	228.7	231.1	210.4	211.4
Beverages, nonalcoholic	187.0	172.2	161.7	149.1	342.0	304.2	277.0	257.4
Malt liquors	196.1	185.0	163.9	182.8	391.8	351.0	299.9	349.6
Canning and preserving	163.8	111.7	91.7	163.8	421.2	282.9	234.2	401.8
TOBACCO MANUFACTURES <u>1/</u>	88.8	90.6	90.5	89.8	205.5	205.8	201.3	200.0
Cigarettes	122.4	121.2	120.7	120.1	270.0	263.1	253.1	253.7
Cigars	74.7	78.1	78.3	77.0	171.1	175.8	175.1	169.6
Tobacco (chewing and smoking) and snuff	75.6	76.1	75.9	77.4	164.1	166.7	161.8	171.0

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	July	June	May	July	July	June	May	July
PAPER AND ALLIED PRODUCTS <u>1/</u>	146.1	146.9	146.5	143.3	341.7	337.8	331.1	304.2
Paper and pulp	149.5	148.2	148.5	143.2	358.9	347.7	343.2	314.5
Paper goods, other	160.2	163.6	163.0	159.5	355.3	358.4	355.0	317.2
Envelopes	140.9	144.0	145.8	132.7	272.9	284.0	283.3	250.7
Paper bags	156.3	157.8	158.5	160.5	380.0	364.4	355.4	338.6
Paper boxes	131.0	133.9	131.8	133.6	294.9	304.8	290.4	273.6
PRINTING, PUBLISHING, AND ALLIED INDUSTRIES <u>1/</u>	131.1	132.3	132.0	131.2	260.1	264.9	262.2	238.0
Newspapers and periodicals	123.7	123.8	123.3	119.8	235.5	238.1	236.5	208.9
Printing; book and job	143.4	144.5	144.3	144.4	296.0	299.3	296.7	270.5
Lithographing	118.9	118.3	117.6	119.8	223.5	230.3	224.1	207.4
Bookbinding	129.5	136.3	136.2	143.6	290.1	310.0	302.9	299.2
CHEMICALS AND ALLIED PRODUCTS	195.7	198.4	198.4	195.0	430.2	432.6	422.5	387.7
Paints, varnishes, and colors	180.9	180.9	179.4	171.9	357.3	349.7	343.9	308.2
Drugs, medicines, and insecticides	228.6	230.6	231.1	242.1	475.7	485.7	481.5	449.5
Perfumes and cosmetics	104.6	104.7	105.2	112.2	205.0	213.2	209.7	205.0
Soap	146.4	144.3	142.2	157.2	331.9	329.8	322.9	310.2
Rayon and allied products	132.9	132.7	131.2	126.1	288.9	279.7	275.1	249.8
Chemicals, not elsewhere classified	275.8	283.5	279.8	282.8	573.1	585.9	563.2	533.7
Explosives and safety fuses	325.4	316.5	304.7	269.1	657.7	638.4	592.0	485.0
Compressed and liquefied gases	251.5	253.7	250.9	246.8	517.0	504.3	491.7	437.4
Ammunition, small-arms	179.8	181.1	181.6	160.9	419.8	410.3	404.1	359.1
Fireworks	189.3	211.3	219.7	207.6	505.7	571.3	594.9	534.3
Cottonseed oil	81.8	82.8	89.1	76.0	229.6	227.8	245.9	193.8
Fertilizers	123.4	131.4	156.1	126.2	361.0	377.3	428.3	334.5
PRODUCTS OF PETROLEUM AND COAL <u>1/</u>	160.7	160.3	157.3	156.2	353.4	342.2	335.8	300.5
Petroleum refining	159.8	159.2	156.7	156.1	344.9	330.8	326.2	292.6
Coke and byproducts	147.0	145.9	143.2	137.7	329.7	330.1	320.6	270.5
Paving materials	111.0	110.3	97.1	114.0	261.2	249.2	222.8	236.6
Roofing materials	215.5	218.2	213.2	225.3	531.9	523.3	508.5	493.8

See explanatory notes, sections C, F, and G, and the glossary for definitions.

TABLE 10: Indexes of Production-Worker Employment and Weekly Pay Rolls in Manufacturing Industries - Continued

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948			1947	1948			1947
	July	June	May	July	July	June	May	July
RUBBER PRODUCTS ^{1/}	157.5	161.6	161.1	165.1	329.1	330.2	318.9	331.2
Rubber tires and inner tubes	167.6	169.4	168.5	189.6	329.8	322.0	305.7	350.0
Rubber boots and shoes	139.4	146.9	146.4	135.1	321.7	329.7	328.1	290.0
Rubber goods, other	152.1	157.5	157.5	148.0	330.1	343.7	337.7	304.9
MISCELLANEOUS INDUSTRIES	173.6	175.4	176.6	174.1	373.8	386.1	384.2	349.2
Instruments (professional and scientific), and fire-control equipment	246.1	243.4	242.8	243.1	484.6	488.8	492.6	453.3
Photographic apparatus	219.7	215.6	214.1	217.0	441.5	436.3	431.0	385.9
Optical instruments and ophthalmic goods	199.9	214.6	224.1	234.6	390.9	419.6	426.7	433.7
Pianos, organs, and parts	163.1	172.9	175.2	191.6	337.9	361.1	367.8	402.7
Games, toys, and dolls	218.1	213.8	210.3	188.8	510.3	508.2	496.7	410.1
Buttons	111.2	114.8	114.2	95.4	253.7	271.6	269.4	209.2
Fire extinguishers	270.3	269.3	260.9	284.9	570.0	592.8	563.4	600.0

See explanatory notes, sections C, F, and G, and the glossary for definitions.

^{1/} See footnote 1, table 8.

TABLE 11: Indexes of Employment and Weekly Pay Rolls in Selected Nonmanufacturing Industries

(1939 Average = 100)

Industry group and industry	Employment indexes				Pay-roll indexes			
	1948		1947		1948		1947	
	July	June	May	July	July	June	May	July
MINING:								
Coal:								
Anthracite	91.1	92.6	91.4	88.7	192.7	246.0	246.2	200.3
Bituminous coal	101.7	109.6	108.9	97.5	293.8	344.2	344.3	229.7
Metal	99.1	100.2	98.7	97.8	202.2	208.2	206.1	186.1
Iron	159.6	159.6	155.0	154.3	333.1	345.0	336.3	307.5
Copper	106.6	106.9	106.0	102.9	242.4	232.9	232.6	211.6
Lead and zinc	92.6	100.1	100.6	100.0	193.7	238.7	238.9	210.1
Gold and silver	32.0	31.9	31.3	31.3	55.2	54.2	54.6	47.2
Miscellaneous	191.3	188.6	182.9	187.9	383.0	360.7	352.5	327.6
Quarrying and nonmetallic	126.7	126.8	124.2	129.4	322.3	321.7	312.5	307.0
Crude petroleum and natural gas production	119.7	116.7	112.5	114.3	241.1	227.1	223.4	204.9
TRANSPORTATION AND PUBLIC UTILITIES								
Class I steam railroads ^{1/}	137.9	136.9	133.8	140.0	3/	3/	3/	3/
Street railways and busses	127.2	128.3	128.5	130.9	232.2	231.2	228.1	222.1
Telephone	202.5	199.4	198.4	193.3	336.4	327.1	326.1	302.2
Telegraph	95.7	96.0	96.3	101.5	233.2	228.5	231.1	215.2
Electric light and power	115.7	114.0	112.3	109.3	202.5	196.2	192.1	178.4
TRADE: ^{3/}								
Wholesale	116.2	115.3	114.5	111.1	215.3	211.8	211.8	196.5
Retail	111.9	113.6	113.1	110.2	218.9	218.3	213.8	198.5
Food	113.8	115.5	116.3	113.0	232.9	231.9	227.0	213.8
General merchandise	121.3	124.8	123.7	116.7	234.0	236.5	229.2	214.1
Apparel	107.9	115.4	115.2	106.8	202.3	214.7	211.8	192.0
Furniture and housefurnishings	90.6	92.0	91.9	86.0	178.8	180.2	180.3	155.8
Automotive	109.8	108.5	107.0	104.2	213.4	209.5	205.3	184.8
Lumber and building materials	128.2	126.3	123.7	121.4	257.3	252.8	242.6	218.8
SERVICE:								
Hotels (year-round) ^{4/}	116.0	117.6	117.0	118.3	234.7	236.5	234.6	222.9
Power laundries	122.1	121.5	119.0	127.8	240.6	238.3	232.3	238.5
Cleaning and dyeing	159.2	162.9	160.6	167.9	308.0	324.8	312.4	310.5

See footnotes, table 9, and explanatory notes, sections C, F, and G.

^{1/} Source: Interstate Commerce Commission.^{2/} Not available.^{3/} Includes all nonsupervisory employees and working supervisors.^{4/} Money payments only; additional value of board, room, uniforms, and tips, not included.

EXPLANATORY NOTES

Sec. A. Scope of Employment Revisions - The employment estimates shown in this report for the industry divisions (e.g., manufacturing, mining, etc.) and industry groups (e.g., iron and steel, electrical machinery, etc.) have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series.

Sec. B. Sources of Bench-Mark Data - The chief purpose of revisions published in the April 1948 DETAILED REPORT, was to adjust the levels of employment estimates to bench-mark data through 1946. In preparing estimates for private employment prior to 1939, the various industrial censuses taken by the Bureau of the Census were used as sources of bench-mark data. Data obtained from the Federal Security Agency are the main bases for 1946 bench marks. Bench marks for State and local government are based on data compiled by the Bureau of the Census, while most of the data on Federal Government employment is made available by the U. S. Civil Service Commission. The Interstate Commerce Commission is the source for railroads, and the U. S. Maritime Commission for water transportation.

Sec. C. Revisions of Production-Worker Estimates - Data for the manufacturing major industry groups have been adjusted to levels indicated by Federal Security Agency data through 1946 and have been carried forward from 1946 bench-mark levels, thereby providing consistent series. Estimates for the individual manufacturing industries, formerly adjusted to data through 1945, are now being adjusted to 1946 bench-mark levels. As these revisions are completed, they are published in this report and indicated by appropriate footnotes. In the nonmanufacturing industries, the entire series of mining industries have been adjusted to 1946 bench-mark levels.

Since the data shown in this report cover only the current months, a set of summary sheets for each industry presenting comparable figures from January 1939 to date, by months, will be provided upon request to the Bureau of Labor Statistics. Such requests should specify the series desired.

Sec. D. How Employment Estimates Are Made - Estimates of changes in the level of employment are based on reports from a sample group of establishments, inasmuch as full coverage is prohibitively costly and time-consuming. In using a sample, it is essential that an accurate base be established from which estimates may be carried forward. This base or "bench mark" is either a complete count or an estimate with a satisfactory degree of accuracy.

When a new bench mark becomes available, estimates prepared since the last bench mark are reviewed to determine if any adjustment of level is required. This is the basic principle of employment estimating used by the BLS. It yields a satisfactory compromise between a slow but highly accurate complete count on the one hand, and a rapid but less accurate sample count on the other.

Briefly, the Bureau of Labor Statistics computes employment estimates as follows: first, a bench mark or level of employment is determined; second, a sample of establishments is selected; and third, changes in employment indicated by this reporting sample are applied to the bench mark to determine the monthly estimates of employment between bench-mark periods. For example, if the latest complete data on employment for an industry were 40,200 in September 1945, and if the industry has a reporting sample of 13 establishments employing 23,200 workers in September and 23,800 in October, the October estimate would be prepared as follows:

$$40,200 \times \frac{23,800}{23,200} = 41,240$$

In general, data showing month-to-month changes in employment reflect the fluctuations shown by establishments reporting to the Bureau of Labor Statistics. However, the usual estimating method is inadequate in the finance and service industries, which have a preponderance of small establishments. A special sampling procedure has been introduced, involving the scientific selection of a sample of cities and of a representative list of blocks in these cities. Data obtained from the establishments in these blocks yield substantially better estimates of month-to-month changes in employment in the finance and service industries than would be obtained by the use of the sampling procedure employed for other industries. For railroads and the Federal Government, complete reports of employment are available.

Why Revisions Are Necessary - Because reports are not immediately available from new firms, they are frequently introduced into the BLS sample after they have been in operation for some time. This lapse of time produces a rather consistent understatement which becomes larger from year to year. It is important, therefore, that estimates not be allowed to go uncorrected for too long a period. The most recent revisions correct for the downward bias that had accumulated in the nonmanufacturing series beginning January 1945 and in the manufacturing series beginning January 1946. Revisions in some industry divisions were made in order to incorporate greater refinements in methodology and new source materials that have become available.

Sec. E. Comparability With Other Types of Employment Data - The Bureau of Labor Statistics employment estimates are based upon reports submitted by cooperating establishments and therefore differ from employment information obtained by household interviews, such as the Monthly Report of the Labor Force.

The BLS estimates of employment in nonagricultural establishments differ from the Monthly Report of the Labor Force total nonagricultural employment estimates in several important respects. For example: (1) The BLS estimates cover all full- and part-time wage and salary workers in private nonagricultural establishments who worked or received pay during the pay period ending nearest the 15th of the month; in Federal establishments during the pay period ending just before the first of the month; and in State and local government during the pay period ending on or just before the last of the month. Persons who worked in more than one establishment during the reporting period would be counted more than once; (2) Proprietors, self-employed persons, domestic servants, and unpaid family workers are excluded.

Sec. F. Pay-Roll Indexes - Cooperating establishments are instructed to report pay rolls of production or nonsupervisory workers prior to deduction for old age and unemployment insurance, withholding taxes, bonds, and union dues. Pay for sick leave, holidays, and vacations taken is included. Respondents are instructed to exclude pay for vacations not taken as well as cash estimates of any payments in kind. Bonuses, unless earned and paid regularly each pay period, are also excluded.

The methodology for obtaining pay-roll estimates is similar to that for employment estimates. Sample changes showing monthly movements are used in projecting established bench marks to secure current pay-roll estimates. These pay-roll estimates are converted into indexes, using the 1939 average as a base.

Sec. G. Source of Data - Employment and pay-roll estimates are based on reports from cooperating establishments. Excluding about 9,000 block-sample returns, the approximate number of establishments, and workers covered, for each of the industry divisions are shown below:

Approximate Coverage of BLS Employment
and Pay-Roll Sample

Industry division	: Number : of : establishments	: Employees or production : workers	
		: Number	: Percent of total
Manufacturing	34,200	7,503,000	59
Mining	2,800	361,000	53
Contract construction	14,000	492,000	25
Public utilities	7,200	912,000	77
Trade:			
Wholesale	12,400	343,000	19
Retail	35,000	935,000	22
Service:			
Hotels (year-round)	1,200	133,000	35
Power laundries and cleaning and dyeing	1,600	68,000	21

Sec. H. Coverage of Employment Estimates - The employment estimates shown in tables 1, 2, 3, 6, and 7 cover all full- and part-time wage and salary workers who worked or received pay during the pay period ending nearest the 15th of the month. Proprietors, self-employed persons, domestic servants, and personnel of the armed forces are excluded. The estimates and indexes shown in tables 8 and 10 refer to production and related workers as defined in the glossary, page viii.

Sec. I. State Estimates - State estimates are prepared in cooperation with various State Agencies as indicated on page v. The estimates for manufacturing have been adjusted to recent data made available under the Federal Social Security program. Since some states have adjusted to more recent bench-mark data than others, and because varying methods of computation are used, the total of the state estimates differs from the national total (see tables 1 and 2). Because of these recent revisions the state estimates for manufacturing are not consistent with the unrevised data shown prior to June 1947 for total employment in nonagricultural establishments, by state. Comparable series of manufacturing estimates for each state, January 1943 to date, and also for nonagricultural employment for selected states, through December 1946, are available upon request to the cooperating State agency or the appropriate BLS regional office. Estimates of nonagricultural employment, by state, for those States which are now publishing such estimates are shown in table 6. These totals are consistent with the manufacturing estimates in table 7. As nonagricultural estimates for additional States become available, they will be shown in table 6.

COOPERATING STATE AGENCIES

Alabama - Dept. of Industrial Relations, Montgomery 5.
Arizona - Unemployment Compensation Div., Employment Security Commission, Phoenix.
Arkansas - Employment Security Div., Dept. of Labor, Little Rock.
California - Div. of Labor Statistics and Research, Dept. of Industrial Relations, San Francisco 3.
Connecticut - Employment Security Div., Dept. of Labor and Factory Inspection, Hartford 15.
Delaware - Federal Reserve Bank of Philadelphia, Philadelphia 1, Pa.
Florida - Unemployment Compensation Div., Industrial Commission, Tallahassee.
Georgia - Employment Security Agency, Dept. of Labor, Atlanta 3.
Idaho - Employment Security Agency, Industrial Accident Board, Boise.
Illinois - Dept. of Labor, Chicago 1.
Indiana - Employment Security Div., Indianapolis 4.
Iowa - Employment Security Commission, Des Moines 8.
Kansas - State Labor Dept., Topeka.
Louisiana - Div. of Employment Security, Dept. of Labor, Baton Rouge 4.
Maine - Unemployment Compensation Commission, Augusta.
Maryland - Dept. of Labor and Industry, Baltimore 2.
Massachusetts - Div. of Statistics, Dept. of Labor and Industries, Boston 10.
Michigan - Dept. of Labor and Industry, Lansing 13.
Minnesota - Div. of Employment and Security, Dept. of Social Security, St. Paul 1.
Missouri - Div. of Employment Security, Dept. of Labor and Industrial Relations, Jefferson City.
Montana - Unemployment Compensation Commission, Helena.
Nebraska - Div. of Placement and Unemployment Insurance, Dept. of Labor, Lincoln 1.
Nevada - Employment Security Dept., Carson City.
New Jersey - Dept. of Labor, Trenton 8.
New Mexico - Employment Security Commission, Albuquerque.
New York - Div. of Placement and Unemployment Insurance, Dept. of Labor, New York 17.
North Carolina - Dept. of Labor, Raleigh.
Oklahoma - Employment Security Commission, Oklahoma City 2.
Pennsylvania - Federal Reserve Bank of Philadelphia, Philadelphia 1 (Manufacturing); Bureau of Research and Information, Dept. of Labor and Industry, Harrisburg (Nonmanufacturing).
Rhode Island - Div. of Census and Information, Dept. of Labor, Providence 2.
Tennessee - Dept. of Employment Security, Nashville 3.
Texas - Bureau of Business Research, University of Texas, Austin 12.
Utah - Dept. of Employment Security, Industrial Commission, Salt Lake City 13.
Vermont - Unemployment Compensation Commission, Montpelier.
Virginia - Div. of Research and Statistics, Dept. of Labor and Industry, Richmond 21.
Washington - Employment Security Dept., Olympia.
Wisconsin - Statistical Dept., Industrial Commission, Madison 3.
Wyoming - Employment Security Commission, Casper.

BLS REGIONAL OFFICES

- New England - Regional Director, U. S. Bureau of Labor Statistics, Old South Bldg., 294 Washington St., Boston 8, Massachusetts (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont).
- North Atlantic - Regional Director, U. S. Bureau of Labor Statistics, 1000 Parcel Post Bldg., 341 Ninth Avenue, New York 1, New York (Delaware, Pennsylvania, New Jersey, New York).
- North Central - Regional Director, U. S. Bureau of Labor Statistics, 312 National War Agencies Bldg., 226 W. Jackson Blvd., Chicago 6, Illinois (Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota, Wisconsin).
- Southern - Regional Director, U. S. Bureau of Labor Statistics, 6th Floor Silvey Bldg., 114 Marietta Street, N. W., Atlanta 3, Georgia (Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas).
- Pacific-Rocky Mountain - Regional Director, U. S. Bureau of Labor Statistics, 546 Federal Office Bldg., San Francisco 2, California (Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming).

Technical advice and assistance on employment statistics in the states of Virginia, West Virginia, Maryland, and the District of Columbia will be given by the Bureau's Washington Office.

GLOSSARY

- Continental United States - Covers only the 48 States and the District of Columbia.
- Contract construction - Covers only firms engaged in the construction business on a contract basis for others. Force-account construction workers, i.e., hired directly by and on the pay rolls of Federal, State, and local government, public utilities, and private establishments, are excluded.
- Defense Agencies - Covers civilian employees of the National Military Establishment, Maritime Commission, National Advisory Committee for Aeronautics, The Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Office of Selective Service Records, War Assets Administration, Office of Defense Transportation, Office of Scientific Research and Development, National Security Resources Board.
- Family Allowances - Represents the Government's contribution; the amount contributed by the personnel is included under pay rolls.
- Federal Government-Executive branch - Includes U. S. Navy Yards, Federal arsenals, and force-account construction. Fourth-class postmasters are included under the executive branch in table 4, but are excluded from the government data shown in tables 1 and 3.

Employment shown here for the executive branch differs from data published by the U. S. Civil Service Commission in the following respects: (1) Employment collected and published by the Civil Service Commission as of the last day of the month, is here presented as of the first day of the next month; (2) substitute rural mail carriers are excluded; (3) employment in December of each year includes the additional postal employees necessitated by the Christmas season, excluded from published Civil Service Commission figures starting 1942; (4) seaman and trainees who are hired and paid by private steamship companies having contracts with the Maritime Commission are excluded; (5) the Panama Railroad Company is shown here under Government corporations but is included under the executive branch by the Civil Service Commission.

Finance - Covers establishments operating in the fields of finance, insurance, and real estate; excludes the Federal Reserve District Banks and the mixed ownership banks of the Farm Credit Administration.

Government - Covers Federal, State, and local governmental establishments performing legislative, executive, and judicial functions, as well as all government-owned and operated establishments and institutions (arsenals, navy yards, hospitals, etc.), government corporations, and government force-account construction. The data shown in table 1 exclude fourth-class postmasters because they presumably have other major jobs.

Government corporations - Covers only three corporations: The Panama Railroad Company, the Federal Reserve banks, and the mixed-ownership banks of the Farm Credit Administration. All other corporations are included under the executive branch.

Indexes of production-worker employment - Estimates of production-worker employment expressed as a percentage of the average employment in 1939.

Indexes of production-worker weekly pay rolls - Estimates of production-worker weekly pay rolls expressed as a percentage of the average weekly pay roll for 1939.

Leave payments - Payments were authorized by Public Law 704 of the 79th Congress and were continued by Public Law 254 of the 80th Congress to enlisted personnel who were discharged prior to September 1, 1946 for accrued and unused leave and to officers and enlisted personnel then on active duty for leave accrued in excess of 60 days. Value of bonds represents face value; interest is paid in addition when bonds are cashed. Lump-sum payments for terminal leave, which were authorized by Public Law 350 of the 80th Congress, and were started October 1947, are excluded here and included under pay rolls.

Manufacturing - Covers only privately owned establishments; governmental manufacturing operations such as arsenals and navy yards are excluded.

Military personnel and pay rolls - Data are for personnel on active duty. Reserve personnel are excluded if on inactive duty or if on active duty for a brief training or emergency period. Personnel is as of the first of the month and pay rolls are for the entire month. Through October 1, 1947, discharged officer personnel were included until the end of their terminal-leave period; discharged enlisted personnel were included from October 1, 1946 through October 1, 1947 only. After October 1, 1947, lump-sum terminal-leave payments at time of discharge (authorized by Public Law 350 of the 80th Congress) were made.

Coast Guard pay rolls for all periods and Army pay rolls through April 1947 represent actual expenditures. Other pay rolls represent estimated obligations based on an average monthly personnel count. Pay rolls for the Navy and Coast Guard include cash payments for clothing-allowance balances in January, April, July, and October.

Mining - Covers establishments engaged in the extraction from the earth of organic and inorganic minerals which occur in nature as solids, liquids, or gases; includes various contract services required in mining operations, such as removal of overburden, tunnelling and shafting, and the drilling or acidizing of oil wells; also includes ore dressing, beneficiating, and concentration.

Nonagricultural establishments - Governmental or private business establishments; (1) that are physically located within continental United States; and (2) whose principal activity can be classified under one of the following industry divisions - manufacturing, mining, contract construction, transportation and public utilities, trade, finance, service, or government.

Pay rolls - Private pay rolls represent weekly pay rolls of both full- and part-time production and related workers (or nonsupervisory employees and working supervisors) who worked or received pay for any part of the pay period ending nearest the 15th of the month, before deductions for old-age and unemployment insurance, group insurance, withholding tax, bonds, and union dues, but after deductions for damaged work. Includes pay for sick leave, holidays, and vacations taken. Excludes cash payments for vacations not taken, retroactive pay not earned during period reported, value of payments in kind, and bonuses, unless earned and paid regularly each pay period. In mining industries further deductions are made for explosives or other supplies furnished by the company. In coal mining portal-to-portal pay is included. Federal civilian pay rolls are for all employees before deductions for income tax, retirement, and bonds.

Production and related workers - Includes working foremen and all non-supervisory workers (including lead men and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage,

handling, packing, warehousing, shipping, maintenance, repair, janitorial, watchman services, products development, auxiliary production for plant's own use (e.g., power plant) and record-keeping and other services closely associated with the above production operations. Excludes supervisory employees (above the working foreman level) and their clerical staffs, routemen, salesmen, and other groups of nonproduction workers defined below under wage and salary workers.

Service - Covers establishments primarily engaged in rendering services, to individuals and business firms. Excludes automobile repair services, government owned and operated hospitals, museums, etc., and domestic service.

Trade - Covers establishments engaged in wholesale trade, i.e., selling merchandise to retailers, and in retail trade i.e., selling merchandise for personal or household consumption, and rendering services incidental to the sale of goods. Includes auto repair services.

Transportation and public utilities - Covers only privately owned and operated enterprises engaged in providing all types of transportation and related services; telephone, telegraph, and other communication services; or providing electricity, gas, steam, water, or sanitary service. Government owned and operated establishments are included under government.

Wage and salary workers - In addition to production and related workers as defined above, includes workers engaged in the following activities: executive, purchasing, finance, accounting, legal, personnel (including cafeterias, medical, etc.), professional and technical activities, sales, sales-delivery, advertising, credit, collection, and in installation and servicing of own products, routine office functions, factory supervision (above the working foreman level) and other workers not included as production workers. Also includes employees on the establishment pay roll engaged in new construction and major additions or alterations to the plant who are utilized as a separate work force (force-account construction workers).

Wage earner - See production workers.

Washington, D. C. - Data for the executive branch of the Federal Government also include areas in Maryland and Virginia which are within the metropolitan area, as defined by the Bureau of the Census.